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**From:** Doug Krapas [dougkrapas@iepc.com]  
**Sent:** 11/9/2018 10:30:19 PM  
**To:** ABOR461@ECY.WA.GOV; Lisa Dally Wilson (Ex. 6 Personal Privacy (PP)); Benjamin Floyd [ben@whitebluffsconsulting.com]; 'tom@agnewconsulting.com' [tom@agnewconsulting.com]; Edmondson, Lucy [Edmondson.Lucy@epa.gov]; 'Olsen, Catherine' [colsen@spokanecity.org]; 'Williams, Tammie' [WilliamT@wsdot.wa.gov]; mpetersen@landscouncil.org; 'Pond, Elsa' [PondE@wsdot.wa.gov]; Greenlund, Doug [dgreenlund@spokanecity.org]; Lauren Heine [lheine@northwestgreenchemistry.org]; Lara Floyd [lara@whitebluffsconsulting.com]; Breems, Joel [Joel.Breems@avistacorp.com]  
**Subject:** FW: inks dyes and pigments  
**Attachments:** ATT00001.txt

The Scientific American link in Lisa's message below is very interesting, and it makes the connection we have been looking for between yellow dyes in clothing and PCB-11 that is likely getting into our waterways via municipal treatment plants:

*In addition, all 16 pieces of U.S. clothing contained PCB-11. Most were children's items bought at WalMart stores but manufactured overseas, Rodenburg said. In one kids' pajama top, the front, which had yellow printing on it, had 20 times more PCB-11 than the back, which was printed in red.*

*The new study reported that the chemical could be getting into waterways through the washing of clothes that contain the yellow pigments.*

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**From:** Lisa Dally Wilson [mailto:Ex. 6 Personal Privacy (PP)]  
**Sent:** Friday, November 09, 2018 11:41 AM  
**To:** Doug Krapas  
**Subject:** inks dyes and pigments

Hi Doug, I thought I had sent this Wednesday, but found it in my draft folder. Interesting reading.

<https://www.scientificamerican.com/article/yellow-pigments-in-clothing-and-paper-contain-long-banned-chemical/> which indicates that dyes in clothing have also been found to have PCBs.

and  
<http://www.pta.asn.au/index.php/news/63-investigation-yellow-dye-in-clothing-maps-and-napkins-contain-cancer-causing-pcbs>

<https://www.adorama.com/alc/0013006/article/FAQ-Whats-The-Difference-Between-Dye-Based-and-Pigment-Ink>

Also, printer inks (think HP and Epson) can be made either of pigments (non-soluble) OR dyes (soluble). Most ink jets actually use dyes based on what I've read. Interesting reading.

lisa dally wilson, pe | dally environmental | (206) 915-9551 | [www.dallyenvironmental.com](http://www.dallyenvironmental.com)

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**From:** Adriane Borgias <ABOR461@ECY.WA.GOV>  
**Date:** Wednesday, November 7, 2018 at 11:08 AM  
**To:** Doug Krapas <dougkrapas@iepc.com>, Lisa Dally Wilson (Ex. 6 Personal Privacy (PP)), Ben Floyd <ben@whitebluffsconsulting.com>, "tom@agnewconsulting.com" <tom@agnewconsulting.com>, Lucy

Edmondson <Edmondson.Lucy@epa.gov>, Cadie Olsen <colsen@spokanecity.org>, "'Williams, Tammie'" <WilliamT@wsdot.wa.gov>, Mike Petersen <mpetersen@landscouncil.org>, "'Pond, Elsa'" <PondE@wsdot.wa.gov>, "Greenlund, Doug" <dgreenlund@spokanecity.org>, Lauren Heine <lheine@northwestgreenchemistry.org>, David Darling <ddarling@paint.org>, Lara Floyd <lara@whitebluffsconsulting.com>, "Breems, Joel" <Joel.Breems@avistacorp.com>

**Subject:** RE: Initial TSCA Workshop outline

Primer on inks vs dyes.

Can the ACS provide expertise/moderation? Green Chemistry Institute?

<https://www.acs.org/content/acs/en/careers/college-to-career/chemistry-careers/dyes-pigments-ink.html>

Adriane

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**From:** Doug Krapas <dougkrapas@iepc.com>

**Sent:** Wednesday, November 7, 2018 8:48 AM

**To:** Borgias, Adriane P. (ECY) <ABOR461@ECY.WA.GOV>; Lisa Dally Wilson (Ex. 6 Personal Privacy (PP)) <(Ex. 6 Personal Privacy (PP))>; Benjamin Floyd <ben@whitebluffsconsulting.com>; 'tom@agnewconsulting.com' <tom@agnewconsulting.com>; 'Edmondson.Lucy@epa.gov' <Edmondson.Lucy@epa.gov>; 'Olsen, Catherine' <colsen@spokanecity.org>; 'Williams, Tammie' <WilliamT@wsdot.wa.gov>; 'Mike Petersen' <mpetersen@landscouncil.org>; 'Pond, Elsa' <PondE@wsdot.wa.gov>; Greenlund, Doug <dgreenlund@spokanecity.org>; Lauren Heine <lheine@northwestgreenchemistry.org>; David Darling <ddarling@paint.org>; Lara Floyd <lara@whitebluffsconsulting.com>; Breems, Joel <Joel.Breems@avistacorp.com>

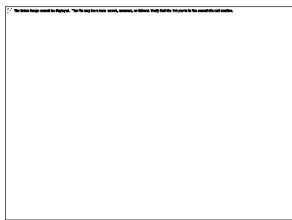
**Subject:** Initial TSCA Workshop outline

Good morning TSCA Workgroup members – attached for our meeting this morning is a concepts document for the Task #7 Workshop proposal. Per my previous message regarding the meeting this morning, I intend to focus our efforts on review of the letter from EPA Region 10 Administrator Chris Hladick (attached) and the workshop with the short time we have available today.

Thanks and chat with you all soon.

Doug

Doug Krapas  
Environmental Manager



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